

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P318517

Luminaire Tested: **GLEON-SA3B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12828 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

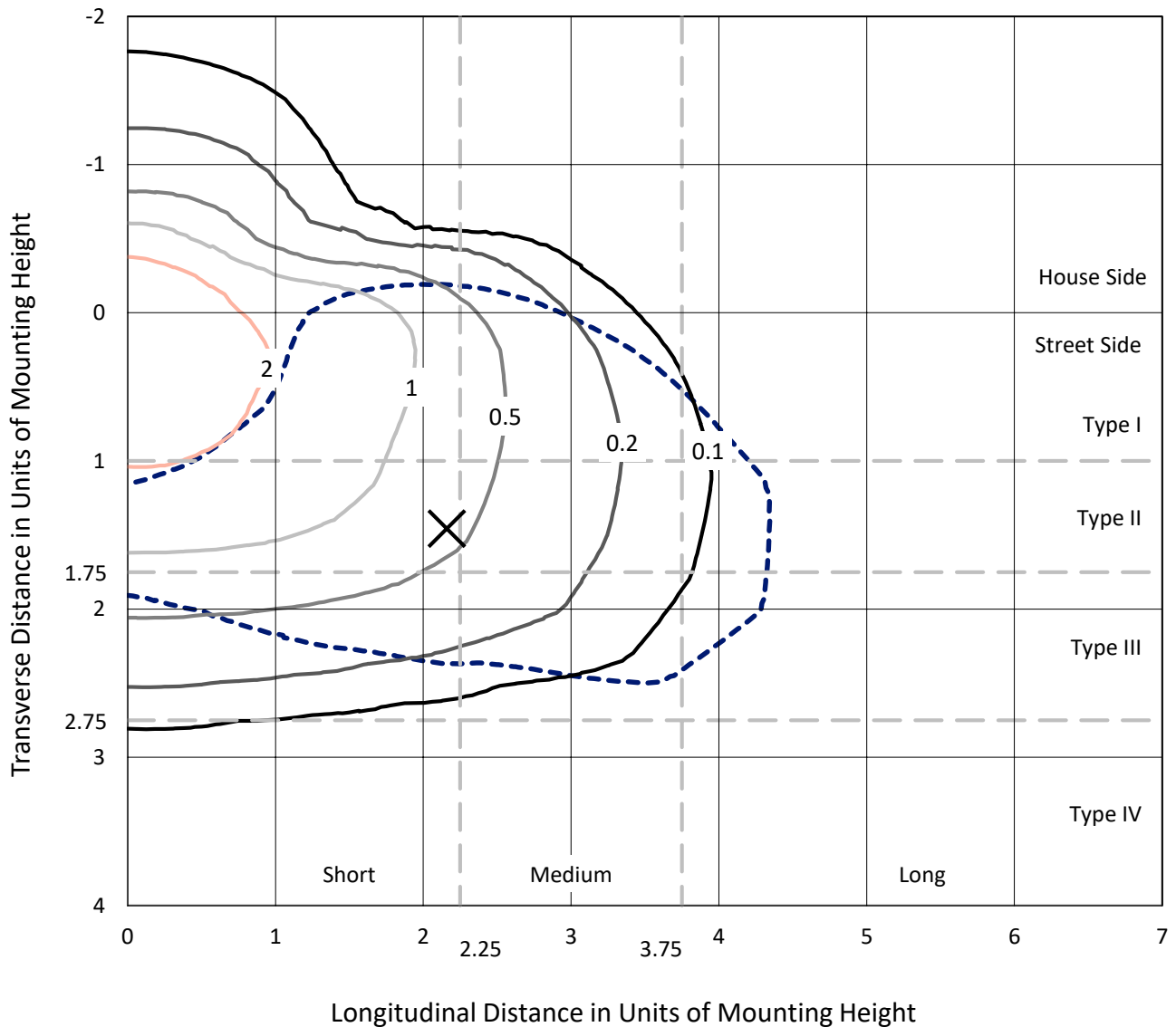
Input Watts (W): 124
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

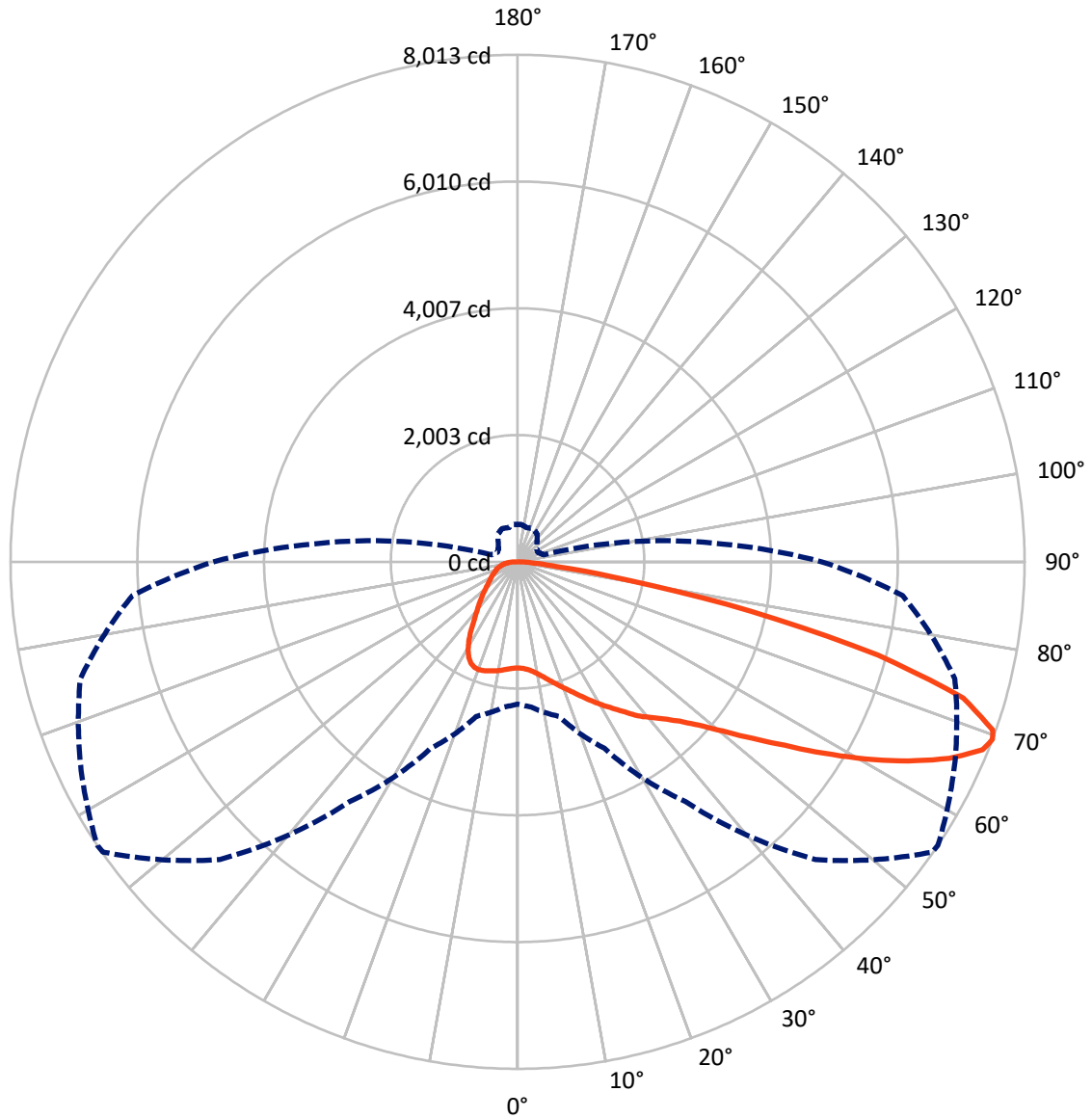
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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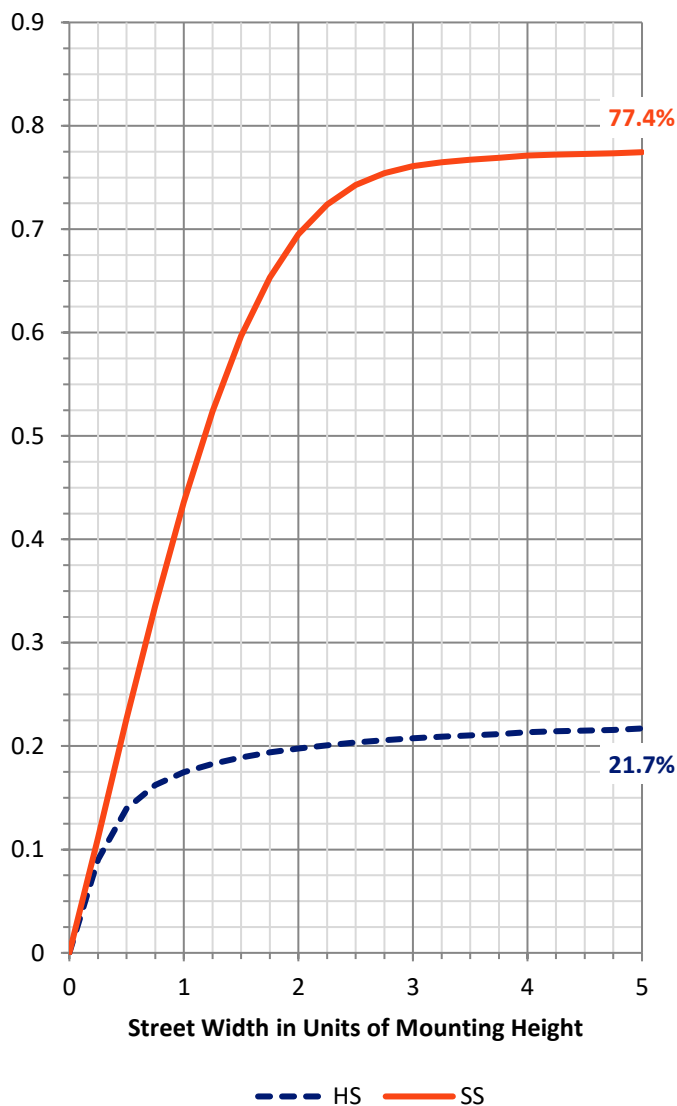
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2856.8	0.0	2856.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9971.2	0.0	9971.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	12828.0	0.0	12828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	1.3
10°-20°	529.7	4.1
20°-30°	924.6	7.2
30°-40°	1328.1	10.4
40°-50°	1838.0	14.3
50°-60°	2693.0	21.0
60°-70°	3283.3	25.6
70°-80°	1815.2	14.2
80°-90°	251.4	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12828.0	100.0
0°-180°	12828.0	100.0



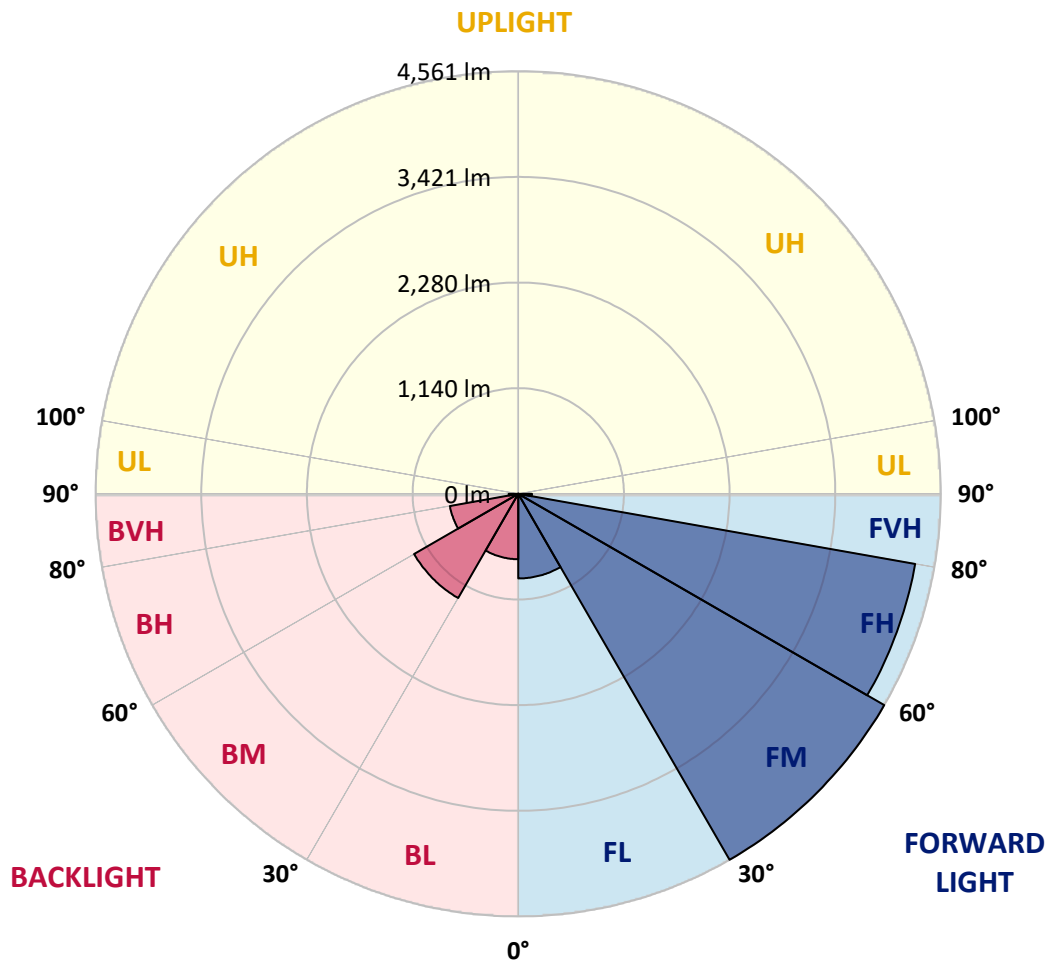
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.0	7.1			
FM (30°-60°)	4560.8	35.6			
FH (60°-80°)	4349.3	33.9			G2/5000
FVH (80°-90°)	148.1	1.2			G2/225
BL (0°-30°)	706.0	5.5	B2/1000		
BM (30°-60°)	1298.3	10.1	B2/2500		
BH (60°-80°)	749.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	103.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1687.7	1689.4	1688.1	1691.7	1687.7	1690.3	1688.1	1688.1	1686.8	1682.8	1678.4
5°	1714.2	1717.7	1715.5	1719.0	1714.2	1715.1	1711.1	1711.1	1707.1	1698.7	1689.9
7.5°	1755.7	1759.7	1757.9	1761.5	1754.8	1754.8	1749.5	1749.1	1741.1	1727.4	1717.3
10°	1805.2	1810.5	1808.8	1814.1	1808.8	1810.5	1805.2	1805.2	1794.6	1775.2	1762.4
12.5°	1877.3	1883.9	1879.0	1878.6	1876.4	1879.9	1875.5	1874.6	1864.9	1838.4	1820.7
15°	1973.6	1980.7	1970.5	1969.6	1957.2	1955.9	1955.9	1954.6	1948.4	1916.6	1887.4
17.5°	2084.5	2086.7	2077.9	2063.7	2047.8	2037.7	2036.3	2039.9	2039.9	2002.8	1956.4
20°	2193.2	2197.2	2190.1	2174.2	2153.9	2138.9	2128.3	2135.3	2134.9	2090.7	2024.9
22.5°	2311.7	2320.9	2310.3	2290.0	2266.1	2249.3	2230.8	2237.0	2237.4	2183.1	2092.0
25°	2465.0	2456.6	2450.0	2421.3	2387.2	2370.0	2352.8	2358.9	2357.2	2282.5	2161.4
27.5°	2600.7	2602.4	2593.6	2563.1	2523.8	2485.8	2484.9	2488.9	2482.2	2385.9	2226.8
30°	2758.4	2759.3	2746.9	2719.5	2676.7	2627.6	2616.1	2622.8	2608.6	2484.0	2295.7
32.5°	2915.3	2919.7	2906.0	2872.9	2838.4	2778.8	2755.8	2760.2	2724.8	2584.3	2366.9
35°	3052.7	3058.9	3054.5	3032.4	2994.9	2943.6	2916.2	2913.5	2869.8	2707.2	2461.0
37.5°	3192.8	3198.6	3193.7	3175.2	3160.1	3105.8	3091.2	3091.2	3015.2	2832.7	2580.8
40°	3336.9	3345.7	3340.0	3314.4	3301.5	3276.8	3241.9	3233.5	3151.3	2983.4	2776.1
42.5°	3470.8	3482.3	3505.3	3490.2	3464.2	3467.7	3397.4	3393.0	3332.9	3206.1	3021.4
45°	3660.8	3677.6	3716.5	3705.0	3699.7	3680.3	3596.7	3592.8	3569.8	3505.7	3325.9
47.5°	3868.1	3891.1	3961.3	3963.5	4020.5	3983.9	3870.3	3856.6	3861.9	3864.5	3697.5
50°	4059.0	4084.2	4199.5	4253.9	4388.2	4396.2	4214.5	4202.2	4222.9	4283.9	4130.6
52.5°	4211.5	4243.3	4387.3	4555.3	4785.5	4850.9	4638.3	4629.1	4644.5	4749.7	4620.2
55°	4323.3	4357.7	4514.6	4820.4	5188.1	5303.4	5126.2	5117.4	5127.1	5261.0	5152.7
57.5°	4349.3	4357.7	4585.3	4998.9	5527.9	5805.0	5723.2	5705.6	5657.8	5774.5	5740.5
60°	4226.9	4260.5	4527.0	5061.7	5790.9	6299.5	6347.2	6325.1	6191.2	6286.7	6259.3
62.5°	3978.6	4038.7	4309.1	4966.2	5893.8	6703.4	6959.3	6932.8	6702.1	6764.0	6632.3
65°	3572.9	3598.5	3882.7	4637.0	5763.0	6961.9	7505.0	7491.8	7201.4	7104.7	6701.2
67.5°	2847.3	2895.4	3136.7	3949.0	5227.9	6931.4	7927.1	7925.7	7527.6	7231.1	6456.8
69°	2249.3	2299.3	2529.1	3252.9	4626.0	6652.6	7997.8	8013.2	7619.5	7154.2	6107.7
70°	1793.3	1851.2	2008.9	2739.9	4091.7	6284.9	7939.0	7966.8	7601.8	7027.3	5785.6
72.5°	763.2	810.0	922.3	1412.4	2493.7	4693.1	7258.9	7364.1	7192.2	6431.6	4781.5
75°	333.2	347.8	398.6	575.8	1107.0	2554.3	5686.6	5881.0	6149.7	5436.4	3561.8
77.5°	243.9	250.1	278.0	338.1	496.7	964.7	3656.8	3770.0	4435.1	3956.0	2184.8
80°	188.7	193.1	214.8	248.4	324.4	390.2	1667.8	1765.0	2493.7	2031.9	909.9
82.5°	150.3	153.3	168.4	183.0	224.1	236.4	553.7	614.3	920.5	561.2	240.8
85°	139.6	143.2	148.5	133.5	143.6	138.8	239.5	250.6	278.0	220.5	100.8
87.5°	63.2	74.7	147.2	103.9	76.5	61.0	98.1	102.5	115.3	115.8	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1681.0	1679.7	1681.9	1676.6	1683.3	1682.8	1680.6	1681.5	1685.9	1685.5	1685.9
5°	1691.2	1690.3	1693.0	1689.0	1697.0	1699.6	1700.0	1704.0	1708.9	1710.2	1710.2
7.5°	1716.8	1716.8	1718.2	1712.9	1718.2	1717.7	1715.5	1719.5	1724.4	1724.8	1724.4
10°	1761.0	1761.5	1759.3	1745.6	1741.1	1729.2	1718.2	1718.6	1724.8	1729.7	1731.0
12.5°	1816.7	1814.9	1805.2	1780.0	1761.5	1737.2	1725.7	1725.2	1731.4	1735.4	1736.7
15°	1880.3	1875.5	1850.3	1809.2	1776.5	1752.6	1734.1	1729.7	1726.1	1721.7	1722.1
17.5°	1940.4	1929.4	1887.4	1830.4	1795.9	1764.1	1728.3	1699.6	1679.7	1668.2	1664.7
20°	2001.4	1979.8	1919.2	1850.3	1806.5	1748.7	1679.7	1621.4	1585.1	1568.4	1565.3
22.5°	2057.1	2022.2	1948.8	1871.1	1798.2	1696.5	1588.2	1503.4	1453.0	1430.5	1432.2
25°	2111.5	2062.9	1979.8	1885.7	1755.7	1604.6	1461.0	1356.7	1298.3	1273.2	1272.3
27.5°	2159.2	2104.0	2013.4	1873.7	1676.6	1473.8	1310.3	1208.6	1160.0	1138.4	1134.8
30°	2214.0	2155.7	2058.0	1828.2	1560.8	1322.7	1163.1	1091.5	1057.1	1035.4	1031.4
32.5°	2280.7	2225.9	2094.7	1745.6	1412.8	1164.9	1048.2	998.3	966.9	942.6	938.2
35°	2377.9	2318.7	2104.0	1627.1	1250.2	1040.3	963.8	912.6	870.1	838.8	835.7
37.5°	2499.9	2435.0	2082.7	1473.8	1092.4	959.4	893.6	830.4	775.1	730.9	723.9
40°	2675.8	2577.7	2024.0	1297.0	976.2	897.1	825.1	753.0	684.5	632.8	622.7
42.5°	2887.0	2745.2	1933.8	1121.1	890.9	833.9	757.0	667.7	602.3	565.7	560.3
45°	3155.7	2919.3	1808.8	967.4	806.9	770.7	683.6	601.4	560.8	533.8	529.4
47.5°	3462.4	3114.6	1677.5	842.3	735.8	711.5	624.9	571.8	539.6	518.4	514.4
50°	3839.4	3335.1	1538.3	739.8	664.2	640.3	597.0	555.5	529.9	513.5	509.5
52.5°	4264.5	3583.9	1438.0	658.9	605.0	587.7	582.4	546.6	525.9	513.5	509.5
55°	4722.3	3837.1	1329.7	590.8	553.7	558.6	572.7	547.5	533.4	518.4	512.6
57.5°	5180.6	4098.8	1209.1	533.4	513.1	536.9	566.1	549.3	537.4	522.8	517.5
60°	5542.9	4264.5	1022.1	485.2	480.8	513.1	550.2	536.0	520.6	521.0	520.1
62.5°	5712.2	4255.6	815.8	442.4	448.5	480.8	524.6	515.3	502.5	519.7	521.0
65°	5617.2	4043.5	635.0	403.5	414.1	447.2	498.0	505.1	509.5	542.7	547.1
67.5°	5218.6	3630.8	491.9	369.4	382.7	424.2	500.7	550.2	555.9	590.8	590.4
69°	4806.3	3243.7	427.3	351.8	367.2	430.0	535.2	578.9	557.3	594.4	589.1
70°	4460.7	2937.4	392.9	339.8	360.2	440.1	558.1	578.5	550.6	582.4	573.6
72.5°	3435.4	2113.2	333.2	317.7	336.3	421.1	564.8	565.7	535.2	541.3	526.3
75°	2356.3	1335.5	290.8	287.7	300.1	379.6	543.6	540.5	494.9	486.1	473.7
77.5°	1299.2	678.3	247.0	259.0	267.4	336.3	494.1	489.6	452.1	433.5	429.1
80°	501.1	297.0	208.6	230.2	235.5	291.2	433.1	429.1	397.7	373.9	367.2
82.5°	189.1	155.6	172.3	199.3	197.5	240.4	366.8	364.6	334.1	299.2	288.6
85°	87.5	93.2	136.6	164.4	151.6	178.1	293.4	297.4	260.3	218.7	218.7
87.5°	37.1	52.1	96.8	124.2	102.1	120.2	215.2	205.5	188.7	130.8	122.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)